IN THE CLAIMS

Please amend the claims to read as follows:

Listing of Claims

1. (Currently Amended) A dynamic network management system in a communication system including a mobile access router forming a mobile network, a local fixed router residing in the mobile network, and a mobile node participating in the mobile network,

wherein the dynamic network management system is configured so arranged that, after the mobile node sends information requesting to request for a global address of the mobile access router, and then the mobile access router receiving the information from the mobile node through the local fixed router[[,]] informs the mobile node about the global address of the mobile access router.

2. (Currently Amended) A dynamic network management system in a communication system including a mobile access router forming a mobile network, a local fixed router residing in the mobile network, and a mobile node participating in the mobile network,

wherein the dynamic network management system is configured so arranged that, after the mobile node which does not know a global address of the mobile access router, sends information indicating that the mobile node does not know the global address of the mobile access router, and then the mobile access router receiving the information from the mobile node through the local fixed router[[,]] informs the mobile node about the global address of the mobile access router.

3. (Cancelled)

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4. (Currently Amended) A dynamic network management apparatus placed in a mobile access router which forms ~~capable of forming~~ a mobile network, comprising:

a connection unit ~~means~~ for connecting to a local fixed router residing in the mobile network,

an information detection unit ~~means~~ for detecting information requesting ~~to request for~~ a global address of the mobile access router, the information being sent from a certain mobile node participating in the mobile network, and the information being forwarded by the local fixed router to the mobile access router, and

a response information sending unit ~~means~~ for sending response information including the global address of the mobile access router to the mobile node which has sent the information through the local fixed router in order to inform the mobile node of the global address of the mobile access router when the information is detected by the information detection unit ~~means~~.

5. (Currently Amended) A dynamic network management apparatus placed in a mobile access router which forms ~~capable of forming~~ a mobile network, comprising:

a connection unit ~~means~~ for connecting to a local fixed router residing in the mobile network,

an information detection unit ~~means~~ for detecting information indicating that a mobile node does not know a global address of the mobile access router, the information being sent from the mobile node participating in the mobile network, the mobile node ~~and~~ not knowing the global address of the mobile access router, and the information being forwarded by the local fixed router to the mobile access router, and

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a response information sending unit ~~means~~ for sending response information including the global address of the mobile access router to the mobile node which has sent the information through the local fixed router in order to inform the mobile node of the global address of the mobile access router when the information is detected by the information detection unit ~~means~~.

6. (Currently Amended) The dynamic network management apparatus according to claim 4, comprising:

an information deleting unit ~~means~~ for deleting the information from a packet with the information when the information is detected by the information detection unit ~~means~~, and

a forwarding unit ~~means~~ for forwarding the packet from which the information has been deleted by the information deleting unit ~~means~~ to a predetermined destination set in the packet.

7. (Currently Amended) The dynamic network management apparatus according to claim 4, further comprising a forwarding unit ~~means~~ for forwarding a packet with the information to a predetermined ~~determined~~ destination set in the packet.

8. (Currently Amended) The dynamic network management apparatus according to claim 4, further comprising a dropping unit ~~means~~ for dropping a packet with the information.

9. (Currently Amended) A dynamic network management apparatus placed in a mobile node which participates ~~capable of participating~~ in a mobile network formed by a mobile access router, comprising:

a connection unit ~~means~~ for connecting to a certain router residing in the mobile network,

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a sending unit ~~means~~ for sending information requesting ~~to request for~~ a global address of the mobile access router to the certain router when the mobile node does not know the global address of the mobile access router, wherein the information is to be ~~being~~ forwarded by the certain router connected via the connection unit ~~means~~ to the mobile access router, and

a response information receiving unit ~~means~~ for receiving response information including the global address of the mobile access router to be sent from the mobile access router as a response to the information sent by the sending unit ~~means~~.

10. (Currently Amended) A dynamic network management apparatus placed in a mobile node which participates ~~capable of participating~~ in a mobile network formed by a mobile access router, comprising:

a connection unit ~~means~~ for connecting to a certain router residing in the mobile network,

[[an]] a sending unit ~~means~~ for sending information indicating that the mobile node does not know a global address of the mobile access router to the certain router when the mobile node does not know the global address of the mobile access router, the information being forwarded by the certain router connected via the connection unit ~~means~~ to the mobile access router, and

a response information receiving unit ~~means~~ for receiving response information including the global address of the mobile access router to be sent from the mobile access router as a response to the information sent by the sending unit ~~means~~.

11. (Currently Amended) The dynamic network management apparatus according to claim 9, further comprising [[a]] an information embedding unit ~~means~~ for embedding the information in a packet header of a Binding Update message, ~~sent to~~ the Binding Update

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message being addressed to a predetermined communication apparatus which is different from the mobile access router, and configured so ~~being so arranged~~ that the sending unit ~~means~~ sends a ~~the~~ packet ~~of~~ including the Binding Update message in which the information is embedded by the information embedding unit ~~means~~.

12. (Currently Amended) The dynamic network management apparatus according to claim 9, wherein the dynamic network management apparatus is configured so ~~arranged~~ that the sending unit ~~means~~ sends information indicating that an access router option can be used in parallel with sending the information.

13. (Currently Amended) The dynamic network management apparatus according to claim 9, further comprising a packet creating unit ~~means~~ for creating a special packet representing the information, and being configured so ~~arranged~~ that the sending unit ~~means~~ sends the special packet created by the packet creating unit ~~means~~.

14-18. (Cancelled)

19. (Currently Amended) A dynamic network management method used by a mobile access router ~~capable~~ which forms ~~of forming~~ a mobile network and which connects ~~connecting~~ to a local fixed router residing in the mobile network, comprising:

an information detection step of detecting information requesting ~~to request for~~ a global address of the mobile access router, the information being sent from a certain mobile node

participating in the mobile network, and the information being forwarded by the local fixed router to the mobile access router, and

a response information sending step of sending response information including the global address of the mobile access router to the mobile node which ~~has~~ sent the information through the local fixed router in order to inform the mobile node of the global address of the mobile access router when the information is detected at the information detection step.

20. (Currently Amended) A dynamic network management method used by a mobile access router ~~capable of forming~~ which forms a mobile network and which connects ~~connecting~~ to a local fixed router residing in the mobile network, comprising:

an information detection step of detecting information indicating that a mobile node does not know a global address of the mobile access router, the information being sent from the mobile node participating in the mobile network, ~~and~~ the mobile node not knowing the global address of the mobile access router, and the information being forwarded by the local fixed router to the mobile access router, and

a response information sending step of sending response information including the global address of the mobile access router to the mobile node which ~~has~~ sent the information through the local fixed router in order to inform the mobile node of the global address of the mobile access router when the information is detected at the information detection step.

21. (Currently Amended) The dynamic network management method according to claim 19, further comprising:

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an information deleting step of deleting the information from a packet with the information when the information is detected at the information detection step, and

a forwarding step of forwarding the packet <u>in</u> which the information has been deleted at the information deleting step to a predetermined destination set in the packet.

22. (Currently Amended) The dynamic network management apparatus according to claim 19, <u>further</u> comprising a forwarding step of forwarding a packet with the information to a <u>predetermined</u> ~~determined~~ destination set in the packet.

23. (Currently Amended) The dynamic network management apparatus according to claim 19, <u>further</u> comprising a dropping step of dropping a packet with the information.

24. (Currently Amended) A dynamic network management method used by a mobile node <u>which participates</u> ~~capable of participating~~ in a mobile network formed by a mobile access router, <u>the mobile node</u> ~~and~~ connecting to a certain router residing in the mobile network, <u>the method</u> comprising:

a sending step of sending information <u>requesting</u> ~~to request for~~ a global address of the mobile access router to the <u>certain</u> router when the mobile node does not know the global address of the mobile access router, <u>wherein</u> the information <u>is to be</u> ~~being~~ forwarded by the <u>certain</u> ~~connected~~ router to the mobile access router, and

a response information receiving step of receiving response information including the global address of the mobile access router sent from the mobile access router as a response to the information sent at the sending step.

25. (Currently Amended) A dynamic network management method used by a mobile node ~~capable of participating~~ which participates in a mobile network formed by a mobile access router, the mobile node ~~and~~ connecting to a certain router residing in the mobile network, comprising:

a sending step of sending information indicating that the mobile node does not know a global address of the mobile access router to the certain router when the mobile node does not know the global address of the mobile access router, wherein the information is to be ~~being~~ forwarded by the certain ~~connected~~ router to the mobile access router, and

a response information receiving step of receiving response information including the global address of the mobile access router sent from the mobile access router as a response to the information sent at the sending step.

26. (Currently Amended) The dynamic network management method according to claim 24, further comprising [[a]] an information embedding step of embedding the information in a packet header of a Binding Update message, ~~sent to~~ the Binding Update message being addressed to a predetermined communication apparatus which is different from the mobile access router, wherein a ~~the~~ packet including ~~of~~ the Binding Update message in which the information is embedded at the information embedding step is sent at the sending step.

27. (Previously Presented) The dynamic network management method according to claim 24, wherein information is sent indicating that an access router option can be used in parallel with sending the information at the sending step.

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28. (Currently Amended) The dynamic network management method according to claim 24, further comprising a packet creating step of creating a special packet representing the information, wherein the special packet created at the packet creating step is sent at the sending step.

29-33. (Original)

34. (Currently Amended) The dynamic network management apparatus according to claim 5, further comprising:

an information deleting unit means for deleting the information from a packet with the information when the information is detected by the information detection unit means, and

a forwarding unit means for forwarding the packet in which the information has been deleted by the information deleting unit means to a predetermined destination set in the packet.

35. (Currently Amended) The dynamic network management apparatus according to claim 5, further comprising a forwarding unit means for forwarding a packet with the information to a predetermined determined destination set in the packet.

36. (Currently Amended) The dynamic network management apparatus according to claim 5, further comprising a dropping unit means for dropping a packet with the information.

37. (Currently Amended) The dynamic network management apparatus according to

claim 10, further comprising [[a]] an information embedding unit means for embedding the

information in a packet header of a Binding Update message, sent to the Binding Update

message being addressed to a predetermined communication apparatus which is different from

the mobile access router, and configured being so arranged that the sending unit means sends a

the packet of including the Binding Update message in which the information is embedded by

the information embedding unit means.

38. (Currently Amended) The dynamic network management apparatus according to

claim 10, wherein the dynamic network management apparatus is configured so arranged that the

sending unit means sends information indicating that an access router option can be used in

parallel with sending the information.

39. (Currently Amended) The dynamic network management apparatus according to

claim 10, further comprising a packet creating unit means for creating a special packet

representing the information, wherein the packet creating unit is configured so and being so

arranged that the sending unit means sends the special packet created by the packet creating unit

means.

40. (Currently Amended) The dynamic network management method according to claim

20, further comprising:

an information deleting step of deleting the information from a packet with the

information when the information is detected at the information detection step, and

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a forwarding step of forwarding the packet in which the information has been deleted at the information deleting step to a predetermined destination set in the packet.

41. (Currently Amended) The dynamic network management apparatus according to claim 20, further comprising a forwarding step of forwarding a packet with the information to a predetermined determined destination set in the packet.

42. (Currently Amended) The dynamic network management apparatus according to claim 20, further comprising a dropping step of dropping a packet with the information.

43. (Currently Amended) The dynamic network management method according to claim 25, further comprising [[a]] an information embedding step of embedding the information in a packet header of a Binding Update message, sent to the Binding Update message being addressed to a predetermined communication apparatus which is different from the mobile access router, wherein a the packet including of the Binding Update message in which the information is embedded at the information embedding step is sent at the sending step.

44. (Previously Presented) The dynamic network management method according to claim 25, wherein information is sent indicating that an access router option can be used in parallel with sending the information at the sending step.

45. (Currently Amended) The dynamic network management method according to claim 25, further comprising a packet creating step of creating a special packet representing the

information, wherein the special packet created at the packet creating step is sent at the sending step.

46. (New) The dynamic network management system according to claim 1, wherein the mobile access router looks for the information requesting the global address of the mobile access router by scanning a packet, the packet being sent from a certain node participating in the mobile network, and the packet being addressed to a predetermined communication apparatus which is different from the mobile access router.

47. (New) The dynamic network management system according to claim 2, wherein the mobile access router looks for the information indicating that the mobile node does not know the global address of the mobile access router by scanning a packet, the packet being sent from a certain node participating in the mobile network, and the packet being addressed to a predetermined communication apparatus which is different from the mobile access router.

48. (New) The dynamic network management apparatus according to claim 4, wherein the information detecting unit comprises a packet scanning unit for scanning a packet, the packet being sent from a certain node participating in the mobile network, and the packet being addressed to a predetermined communication apparatus which is different from the mobile access router, and wherein the information detection unit detects the information requesting the global address of the mobile access router by scanning the packet.

49. (New) The dynamic network management apparatus according to claim 5, wherein the information detecting unit comprises a packet scanning unit for scanning a packet, the packet being sent from a certain node participating in the mobile network, and the packet being addressed to a predetermined communication apparatus which is different from the mobile access router, and wherein the information detection unit detects the information indicating that the mobile node does not know the global address of the mobile access router by scanning the packet.

50. (New)The dynamic network management method according to claim 19, wherein the information detection unit comprises a packet scanning step of scanning a packet, the packet being sent from a certain node participating in the mobile network, and the packet being addressed to a predetermined communication apparatus which is different from the mobile access router, and wherein the information requesting the global address of the mobile access router is detected by scanning the packet at the information detection step.

51. (New) The dynamic network management apparatus according to claim 20, wherein the information detection step comprises a packet scanning step of scanning a packet, the packet being sent from a certain node participating in the mobile network, and the packet being addressed to a predetermined communication apparatus which is different from the mobile access router, and wherein the information indicating that the mobile node does not know the global address of the mobile access router is detected by scanning the packet at the information detecting step.